







## Agenda - Meeting #45

Welcome & Safety Moment
GLX Drainage System
US2 Interim Conditions
Public Outreach Moving Forward

➤ Terry McCarthy, MBTA – GLX Deputy
Program Director, Stakeholder Engagement

**Construction Update** 

Jeff Wagner, GLXC Public Involvement Manager

**Q & A** 

> All





### **Welcome & Safety Moment**

Terry McCarthy, GLX Deputy Program Manager, Stakeholder Engagement

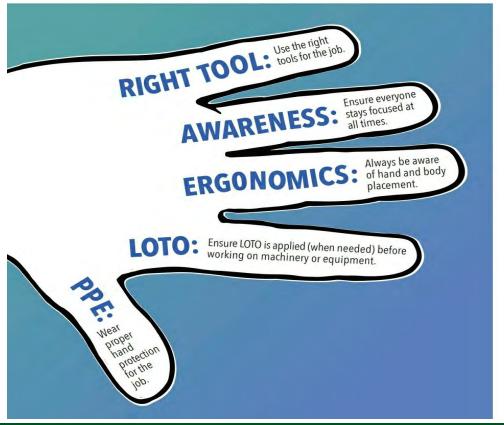






## 1. Safety Moment

# Hand Safety FACTS

















### **GLX Drainage Systems & Improvements**

Terry McCarthy, GLX Deputy Program Manager, Stakeholder Engagement







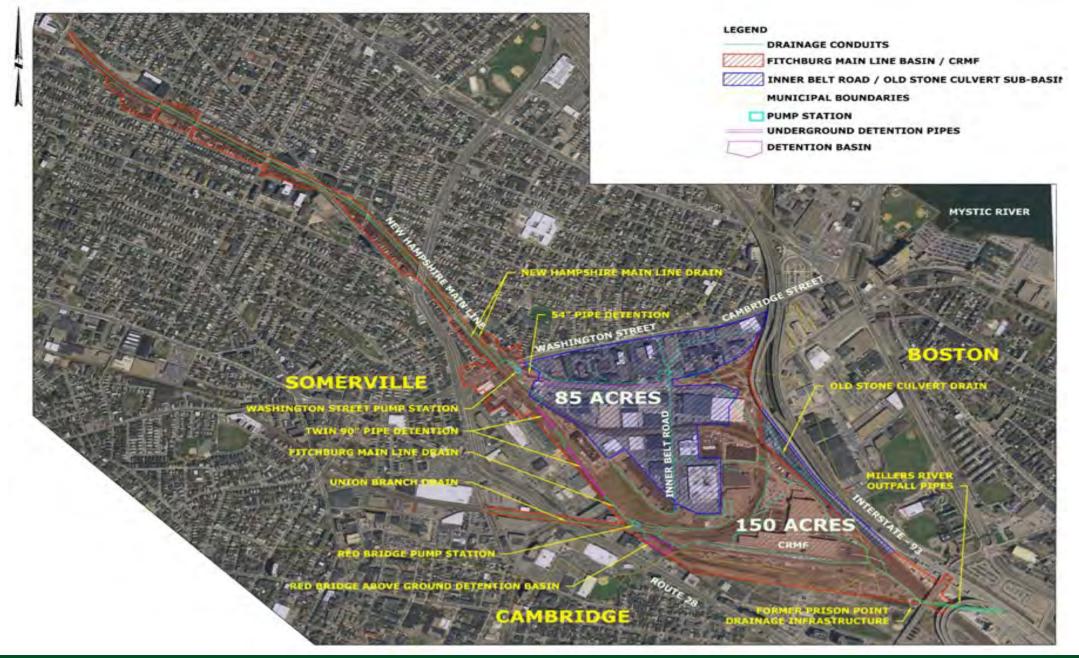








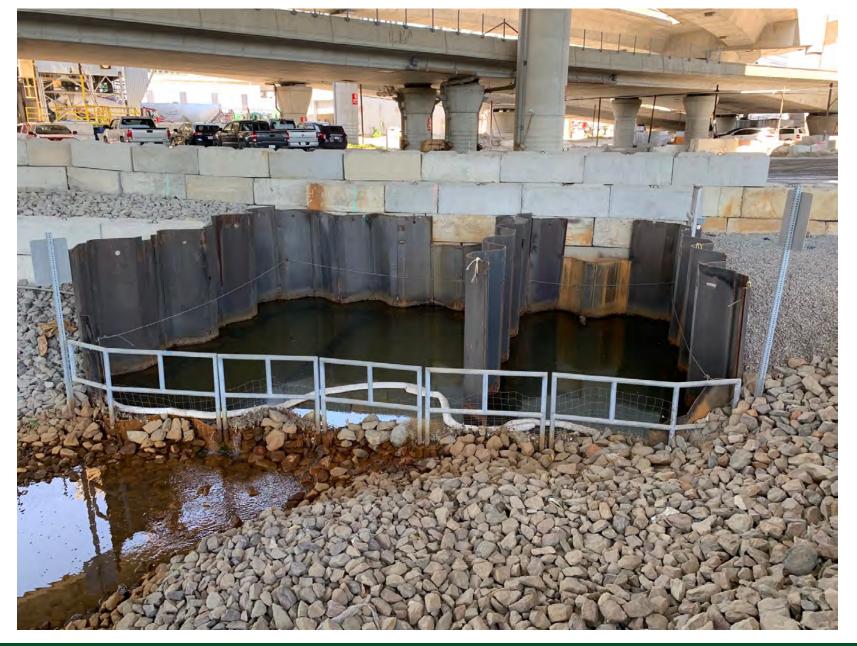


















## **Summary of Existing Millers River Discharges**

- Somerville Municipal Street, Building and Landscape Runoff
- Somerville Commercial Property Runoff
- MBTA and Other Railroad's Track and Maintenance Facility Runoff
- UniFirst Corporation Groundwater Infiltration





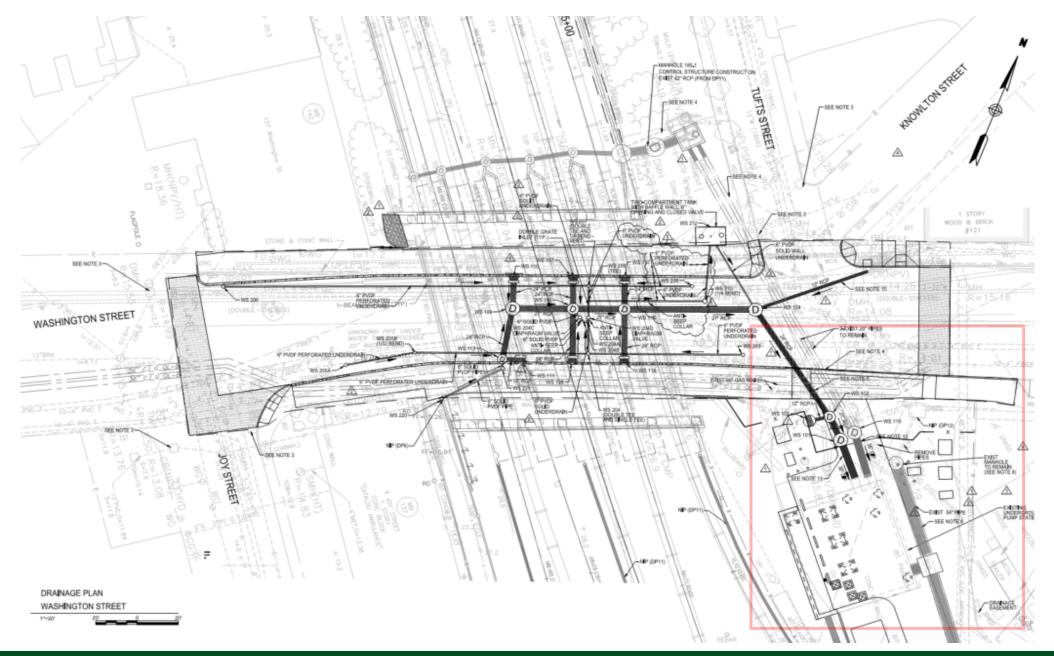








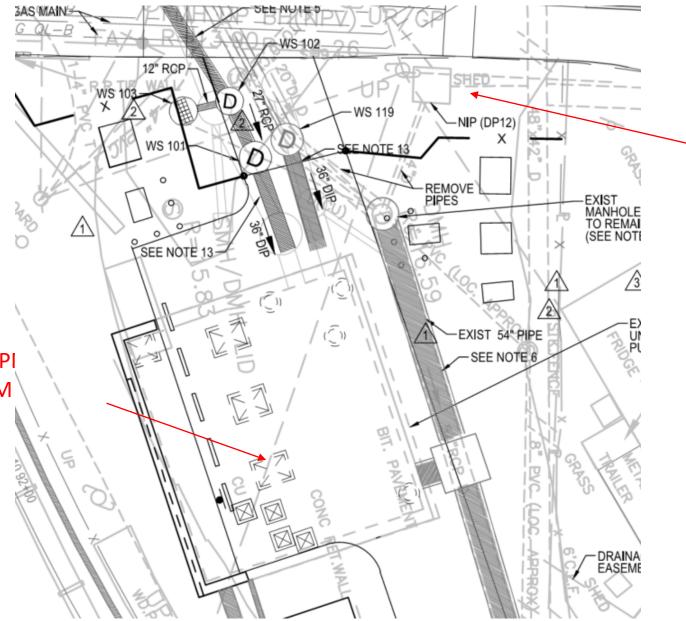












#### Old PS:

2-2 HP Pumps, **Approximately** 300 GPM



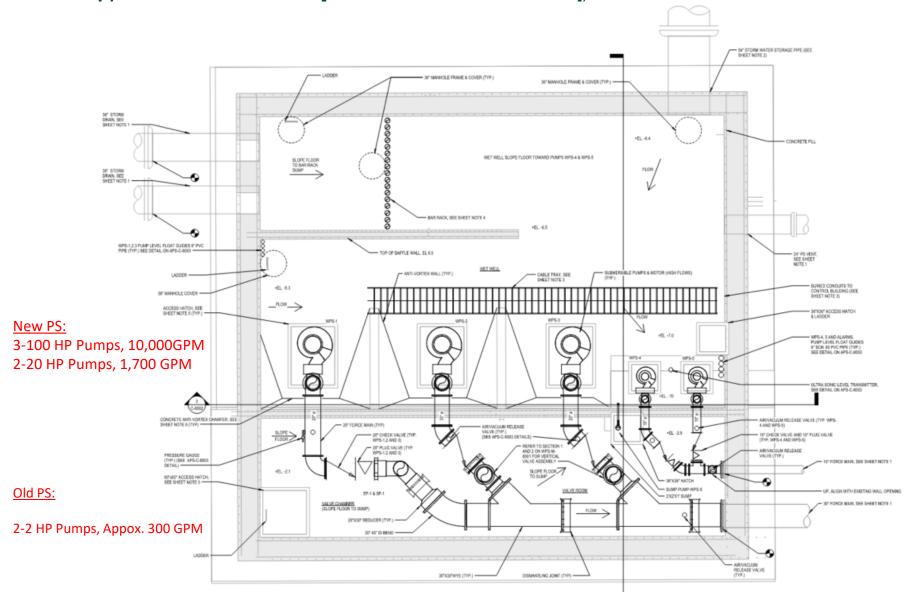
3-100 HP Pumps, 10,000GPI 2-20 HP Pumps, 1,700 GPM







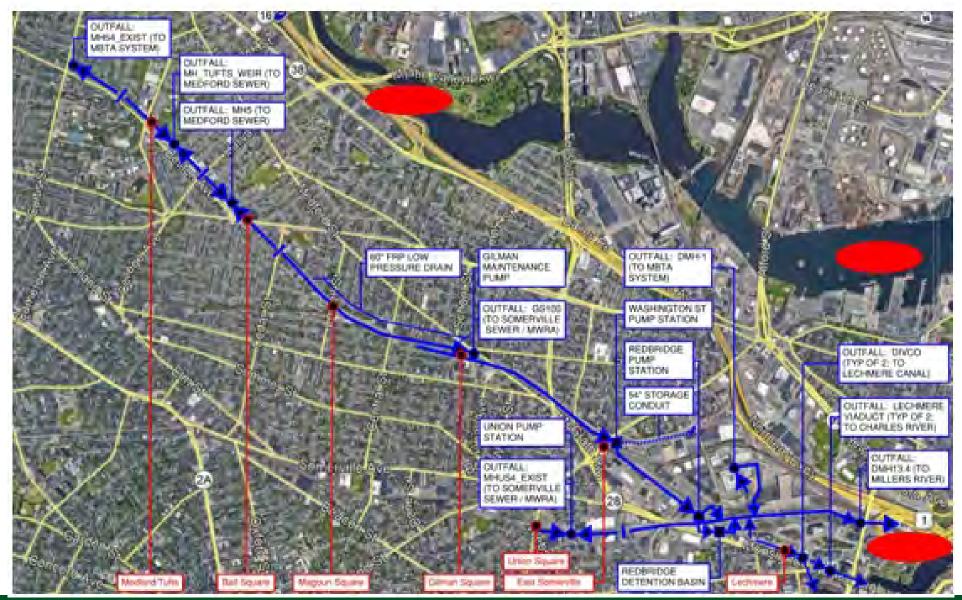
#### Washington Street Pump Station: Plan Layout







## **GLX Drainage System Map**

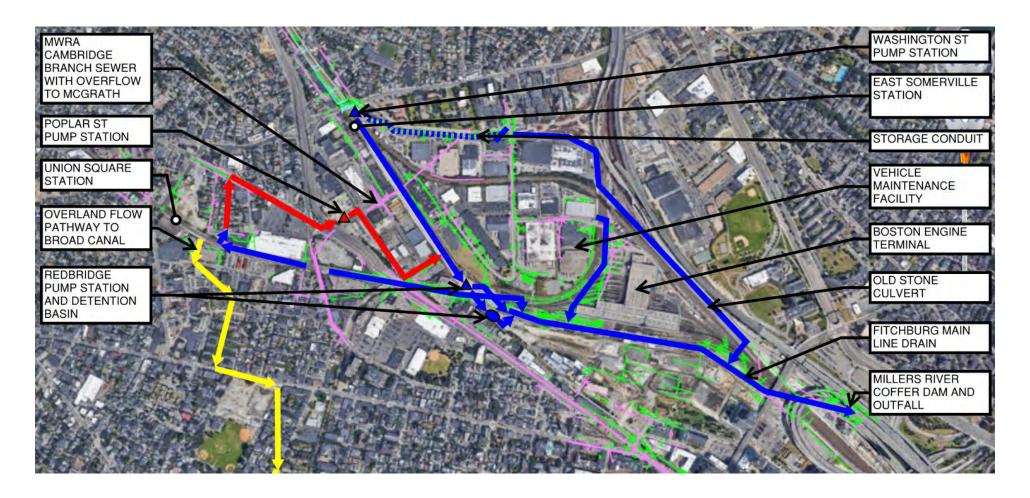








## GLX Drainage System Map: Union Square Branch & Medford Branch South of Washington St







## **Pump Stations**

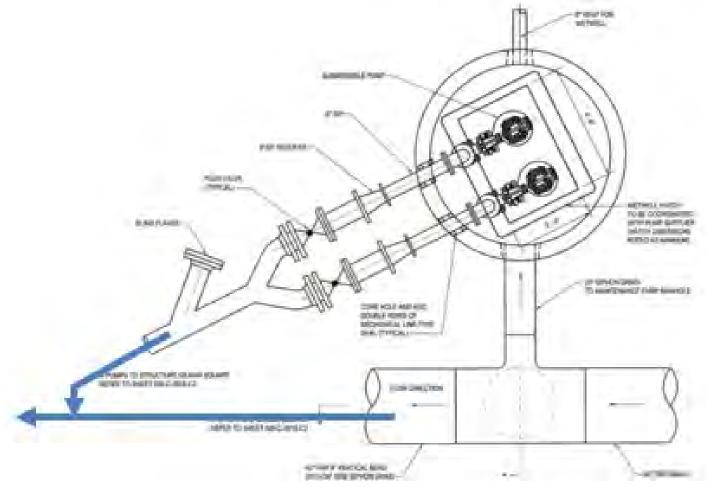






#### **Gilman Maintenance Pump:**

Plan



TAG NO.	NUMBER	NAME	LOCATION		1000	RATING	POINT		MIN. SUCTION/ DISCHARGE SIZE (IN.)	PUMP RPM MAX.	F-17=	MOTOR DATA		
	OF UNITS			TYPE	CAPACITY (GPM)	HEAD (FEET)	MIN. EFF. %	SHUTOFF HEAD FT.			SEAL TYPE	HP	RPM (MAX.)	ENCL TYPE
GPS-1 GPS-2	2	STORMWATER PUMPS	GILMAN SQUARE MAINTENANCE PUMP MANHOLE	SOLIDS HANDLING SUBMERSIBLE	750	28	60	57	4/4	1750	DOUBLE	10	1747	X-PROOF SUBMERSIBL

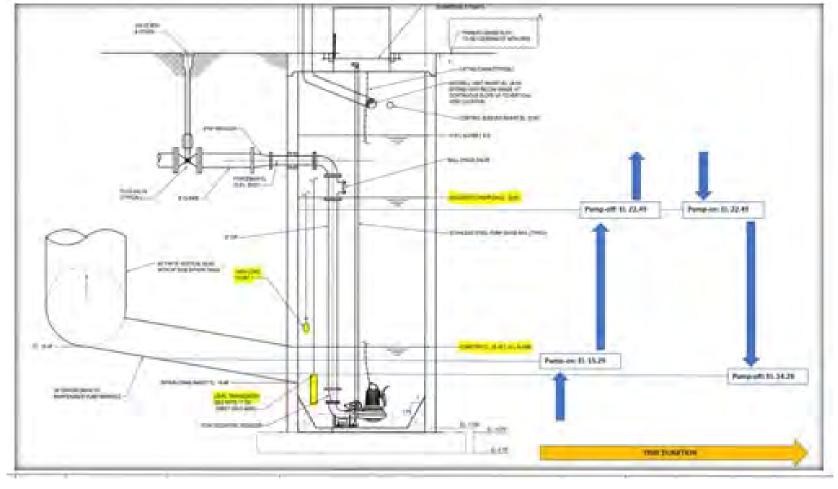






#### **Gilman Maintenance Pump:**

#### **Section**



TAG NO.	NUMBER OF UNITS	NAME		TYPE		RATING	POINT		MIN. SUCTION/ DISCHARGE SIZE (IN.)	PUMP RPM MAX.	SEAL TYPE	MOTOR DATA		
			LOCATION		CAPACITY (GPM)	HEAD (FEET)	MIN. EFF. %	SHUTOFF HEAD FT.				HP	RPM (MAX.)	ENCL. TYPE
GPS-1 GPS-2	2	STORMWATER PUMPS	GILMAN SQUARE MAINTENANCE PUMP MANHOLE	SOLIDS HANDLING SUBMERSIBLE	750	28	60	57	4/4	1750	DOUBLE	10	1747	X-PROOF SUBMERSIE







#### **Washington Street Pump Station:** Plan La SI' STORM WATER STORAGE PIPE (SEE SHEET NOTE 2) - 38" MANNHOLE FRANCE & COVER (TYP.) 36"MANHOLE FRAME & COVER (TYP.) -36" STORM DRAIN, SEE SHEET NOTE +EL-44 WET WELL SLOPE FLOOR TOWARD PUMPS HIPS-4 & HIPS-5 SLOPE FLOOR TO BAR RACK SUMP BAIL RACK, SEE SHEET NOTE 4 WPS-1,2.3 PUNIP LEVEL FLOAT GUIDES IF PVC PIPE (TVP.) SEE DETAIL ON APS-C-8000 TOP OF BAFFLE WALL, EL 6.5 - SUBMERSIBLE PUMPS & MOTOR (HIGH FLOWIS) - ANTI-VORTEX WALL (TYP.) CABLE TRAY, SEE SHEET NOTE 3 -ROW-> New PS: WPS-4, SAND ALARMS, PUMP LEVEL FLOAT GUIDES 6"SCR. 80 PVC PIPE (TIP) SEE DETAIL ON APS-C-8000 3-100 HP Pumps, 10,000GPM 2-20 HP Pumps, 1,700 GPM ULTRA SONIC LEVEL TRANSMITTER, SEE DETAIL ON APS-C-8003 CONCRETE ANTI-VORTEX CHAMFER, SEE SLOPE > 10" CHECK VALVE AND 10" PLUG VALVE. (TYP, WPS-4 AND WPS-6) 10" FORCE MAIN, SEE SHEET NOTE 1 - UP, ALIGN WITH EXISTING WALL, OPENING Old PS: 30" FORCE MAIN, SEE SHEET NOTE 1 FLOW 2-2 HP Pumps, Appox. 300 GPM DISMANTLING JOINT (TYP)

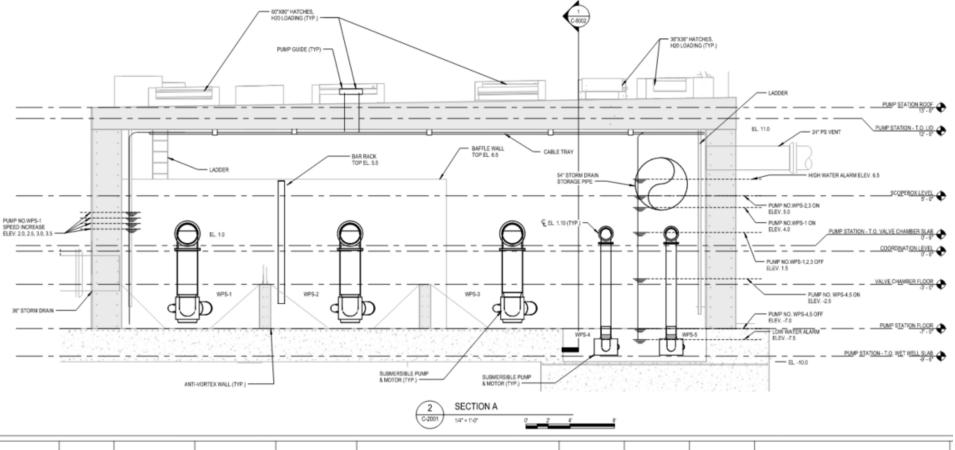






### **Washington Street Pump Station:**

#### **Section**



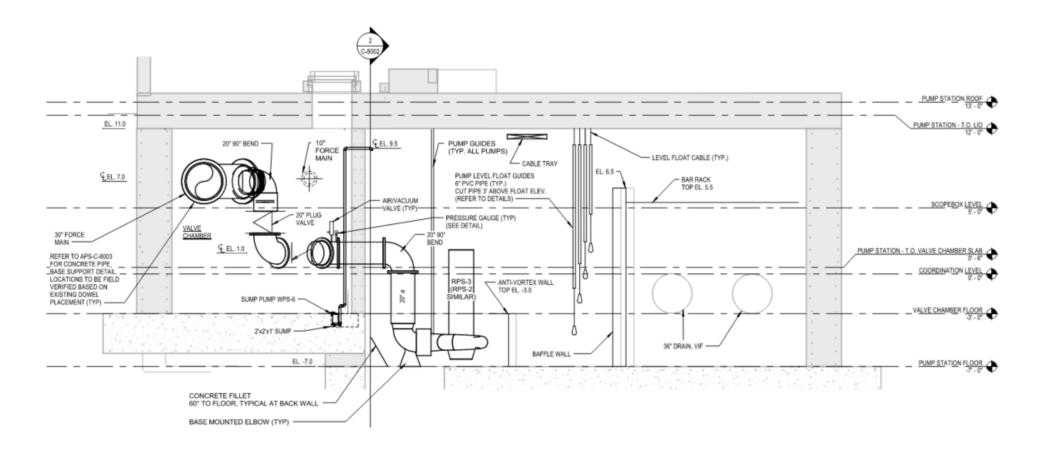
	NUMBER OF UNITS	NAME	LOCATION	TYPE	RATING POINT				MIN. SUCTION/ DISCHARGE SIZE	PUMP RPM MAX.	SEAL TYPE	MOTOR DATA		
	UNIS				CAPACITY (GPM)	HEAD (FEET)	MIN. EFF. %	SHUTOFF HEAD (FT.)	( <b>I</b> NL)			HP	RPM (MAXL)	ENCL. TYPE
WPS-1 THRU 3	3	HIGH FLOW PUMPS	WASHINGTON STREET PUMP STATION	SOLIDS HANDLING SUBMERSIBLE	10,000	30	73	58	16/16	875	TANDEM MECH.	100	720	X-PROOF SUBMERSIBLE
WPS-4 & 5	2	LOW FLOW PUMPS	WASHINGTON STREET PUMP STATION	SOLIDS HANDLING SUBMERSIBLE	1,700	35	69	48	8/8	1170	TANDEM MECH.	20	1200	X-PROOF SUBMERS BLE
WPS-6	1	SUMP PUMP	WASHINGTON STREET PUMP STATION	SOLIDS HANDLING SUBMERSIBLE	25	25	-	-	1,5/2	-	MECH.	1/2	3450	X-PROOF SUBMERSIBLE







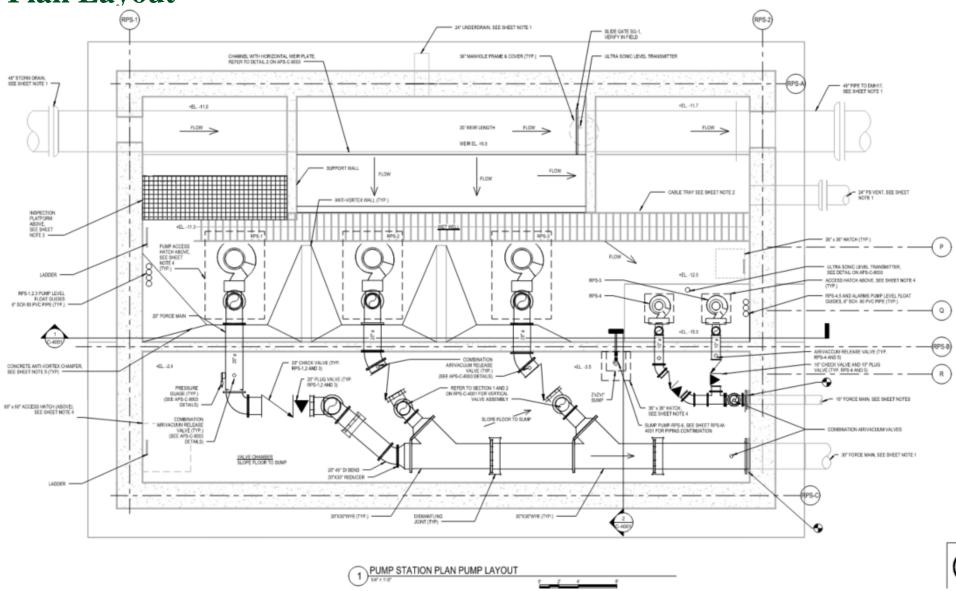
#### Washington Street Pump Station: Section (2)





#### **Red Bridge Pump Station:**

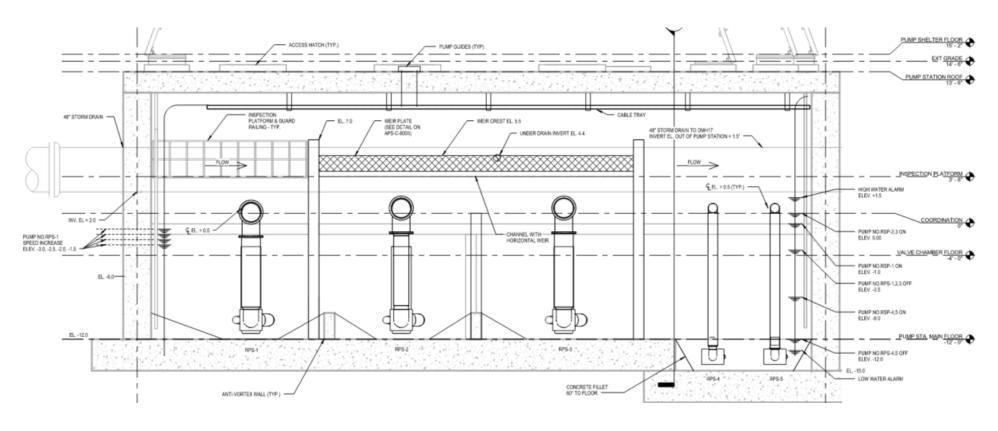
**Plan Layout** 







## **Red Bridge Pump Station: Section**



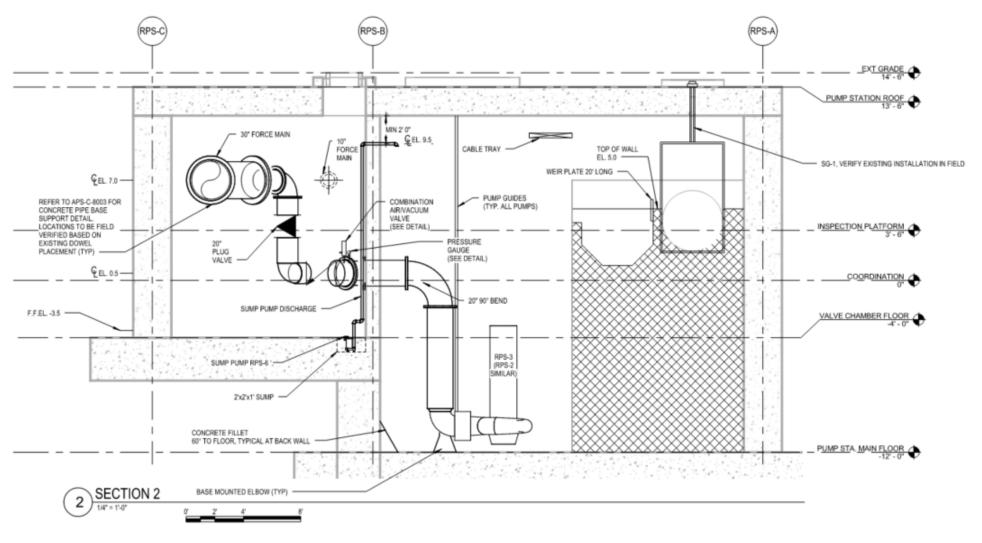
TAG NO.	NUMBER OF UNITS	NAME	LOCATION	TYPE		RAT <b>I</b> NO	POINT		MIN, SUCTION/ DISCHARGE SIZE (IN.)	PUMP RPM MAX.	SEAL TYPE	MOTOR DATA		
	UNITS				CAPACITY (GPM)	HEAD (FEET)	MIN. EFF.%	SHUTOFF HEAD (FT.)				HP	RPM (MAX.)	ENCL. TYPE
RPS-1 THRU 3	3	HIGH FLOW PUMPS	RED BRIDGE PUMP STATION	SOLIDS HANDLING SUBMERSIBLE	10,000	30	73	58	16/16	710	TANDEM MECH.	100	720	X-PROOF SUBMERS BLE
RPS-4 & 5	2	LOW FLOW PUMPS	RED BRIDGE PUMP STATION	SOLIDS HANDLING SUBMERSIBLE	1,700	35	69	48	8/8	1170	TANDEM MECH.	20	1200	X-PROOF SUBMERSIBLE
RPS-6	1	SUMP PUMP	RED BRIDGE PUMP STATION	SOLIDS HANDLING SUBMERSIBLE	25	25	-	-	1.5/2	-	MECH.	1/2	3450	X-PROOF SUBMERSIBLE







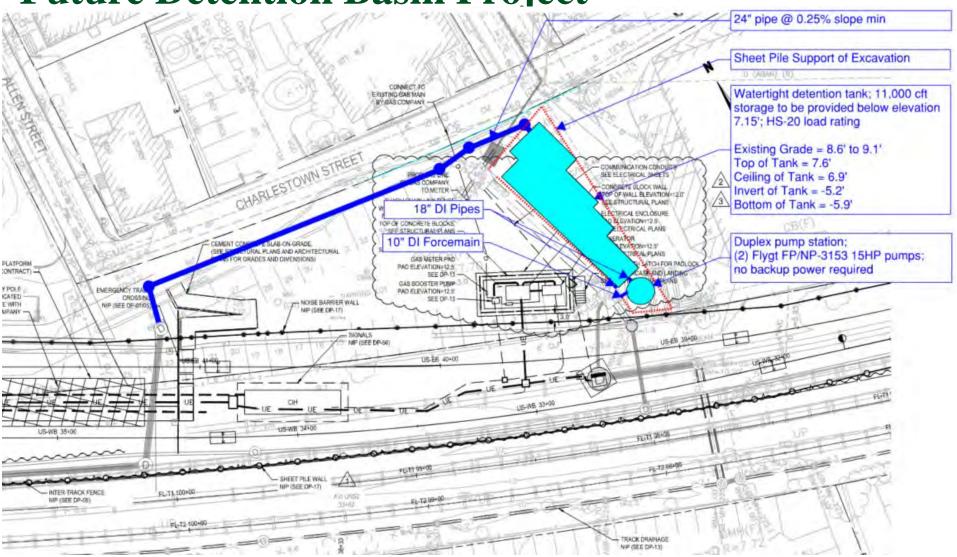
## **Red Bridge Pump Station: Section (2)**





**Union Square Station Flood Mitigation System:** 

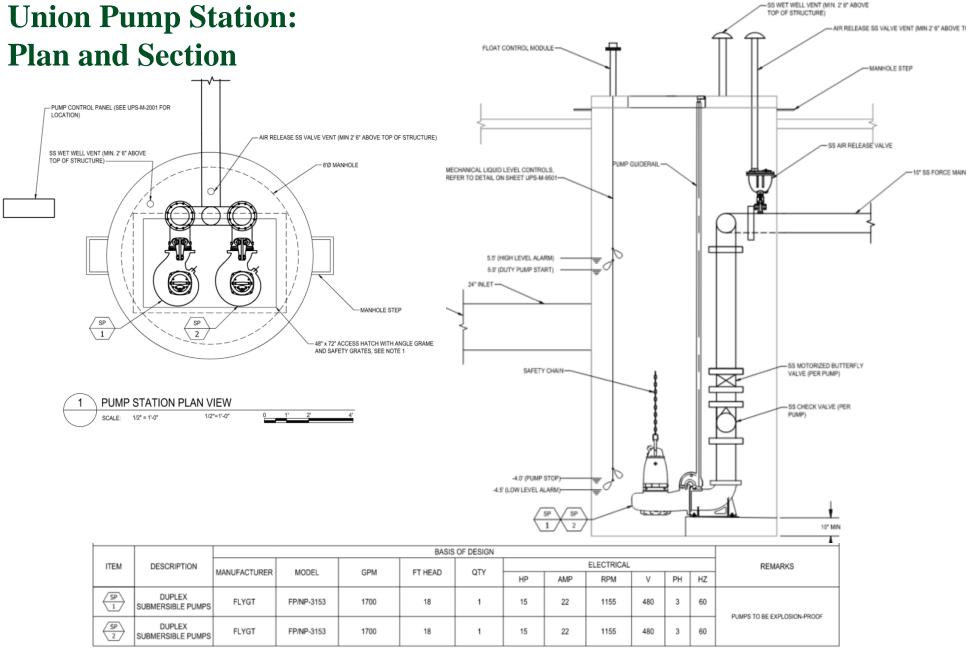
**Future Detention Basin Project** 

















#### **US2 Interim Condition & Public Outreach**

Terry McCarthy, GLX Deputy Program Manager, Stakeholder Engagement



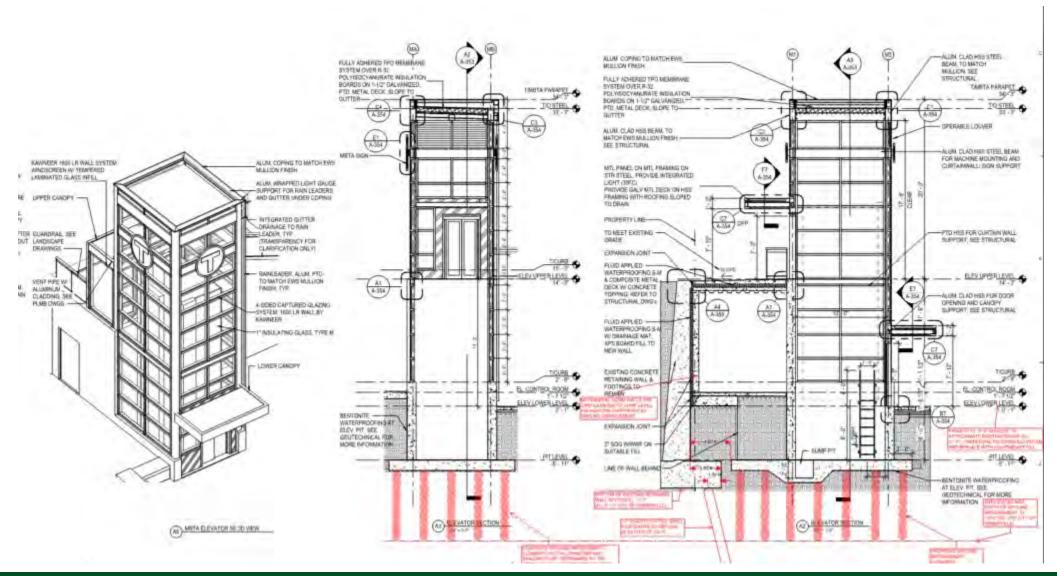




## UNION SQUARE REVITALIZATION D2 Project: Interim MBTA Station Access PROPOSAL #4

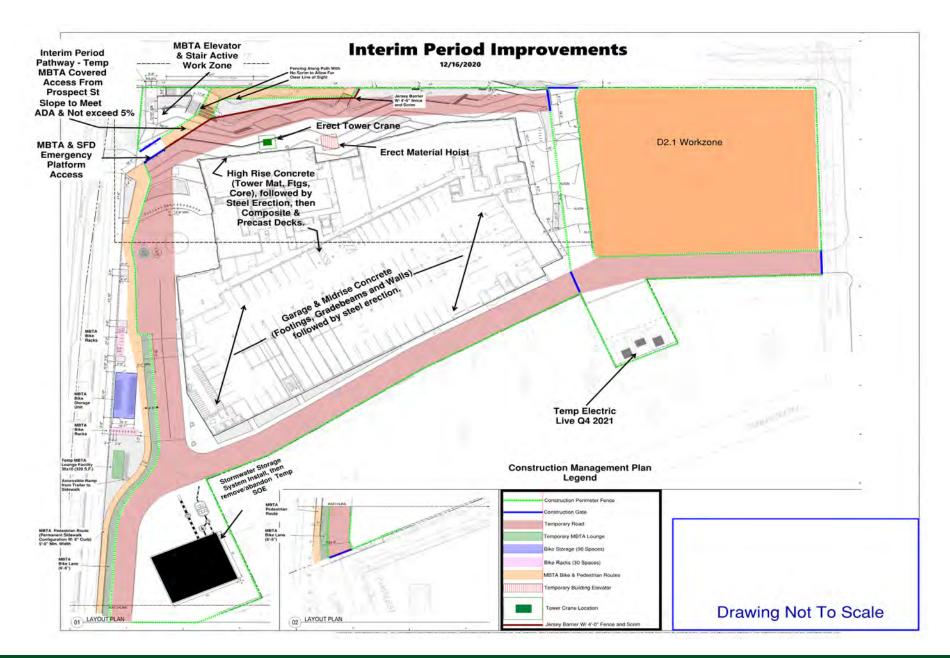
October 1, 2020





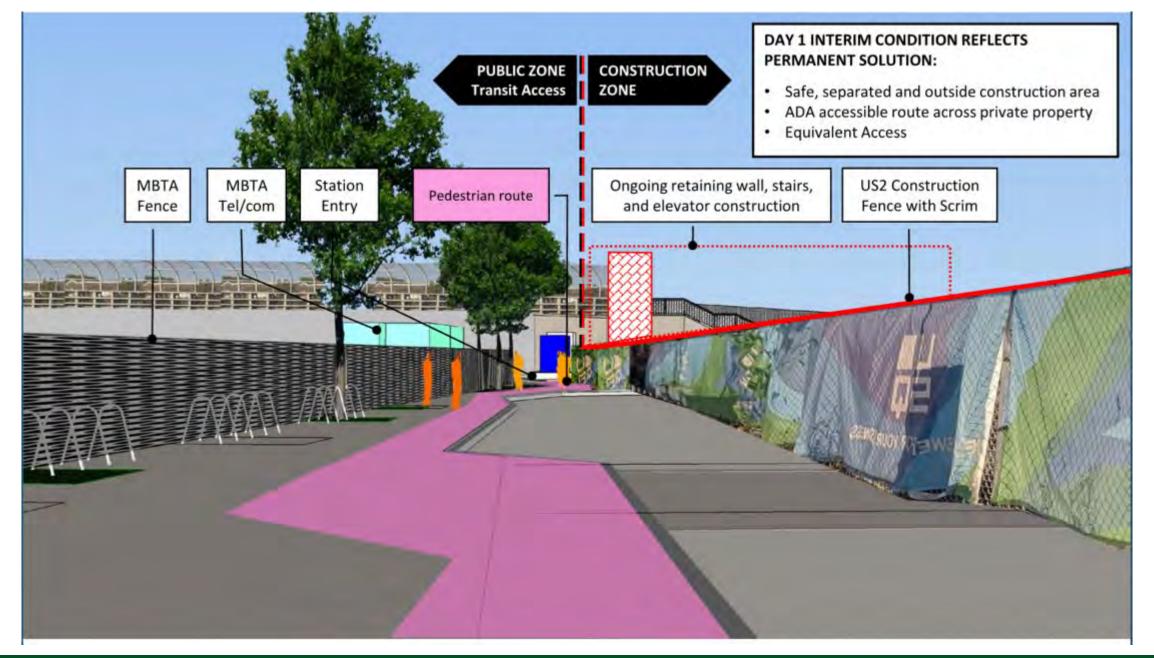








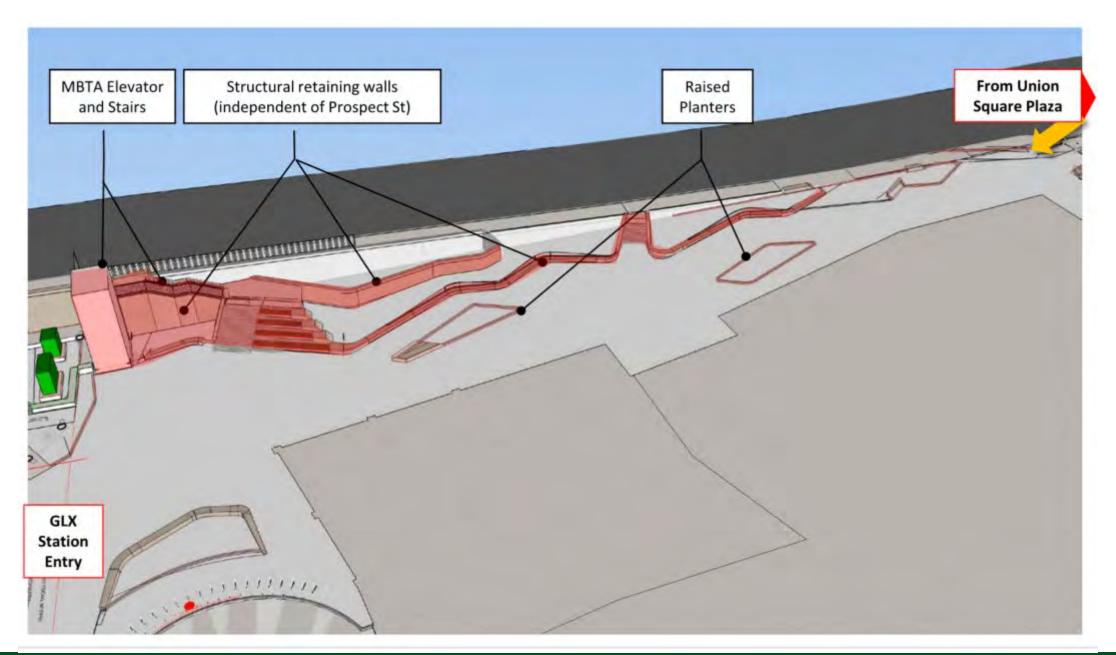






























## **GLXC Construction Highlights**

➤ Jeff Wagner, GLX Public Involvement Manager







# **Construction Highlights – Vehicle Maintenance Facility**



- Vehicle Maintenance Facility is in the process of being handed over to MBTA Operations
- Major achievement for project!







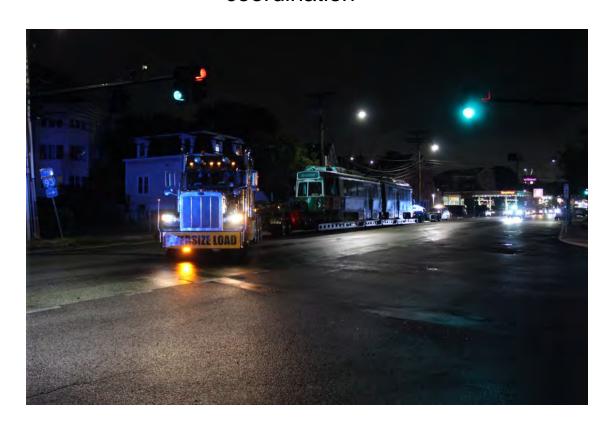




#### **Construction Highlights** — Arrival of Light Rail Vehicles



- Three different types Green Line vehicles arrived at the VMF last week.
- These oversized loads were transported by truck and involved a significant amount of coordination





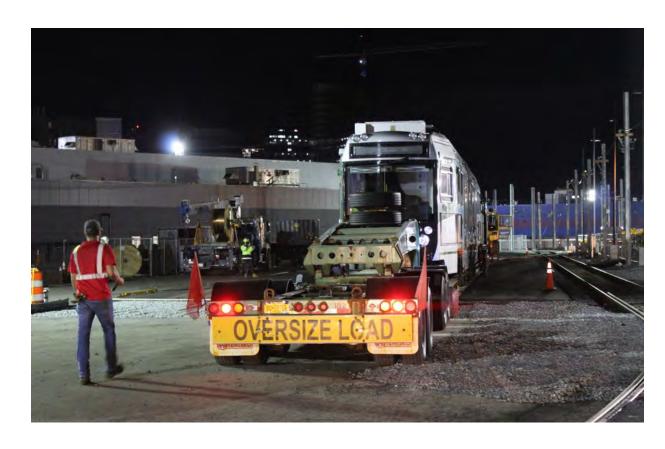






## Construction Highlights — Arrival of Light Rail Vehicles con't









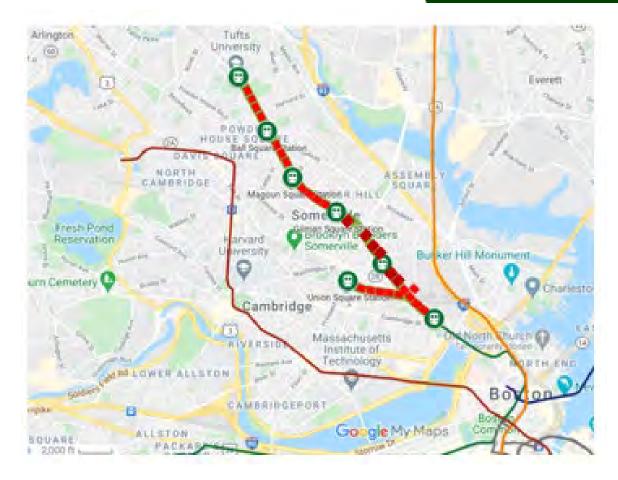


#### **Construction Highlights – Light Rail Track Placement**



- Nearly all Green Line Track is in place
- Only gaps include single lines at Magoun Square & Ball Square Stations and both tracks at Medford/Tufts Station







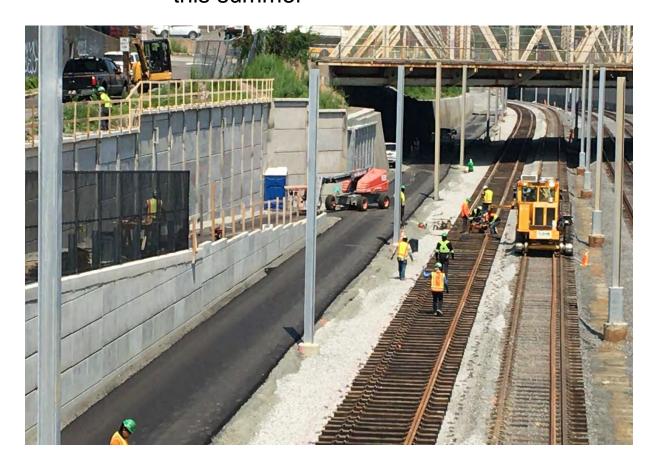


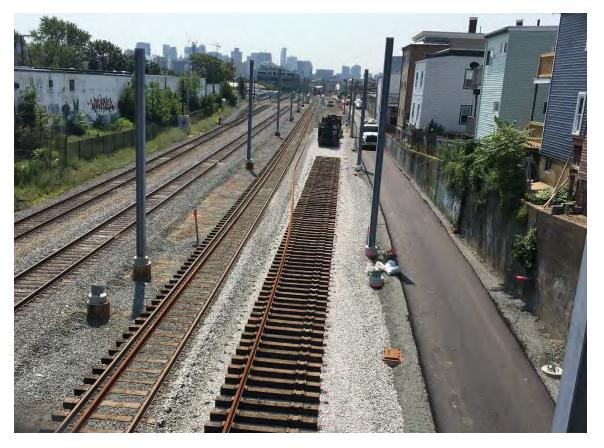


#### Construction Highlights – Light Rail Track Placement con't



 Track placement between Medford St and East Somerville Station has been active this summer











## **Construction Highlights – Track Placement con't 2**



 Two lines of track and a noise wall now stand in the path of our Community Working Group tour route from October 2020







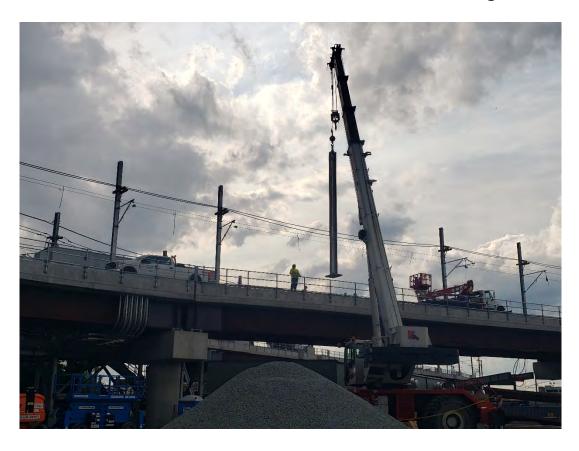


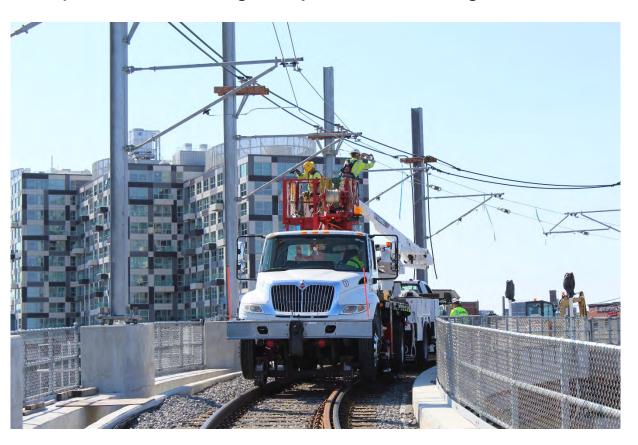


### **Construction Highlights – Systems Installation**



- The last of 220 Overhead Contact System poles on the Union Square Branch was set on July 22
- Crews now focused on finalizing catenary wire pull and final height adjustments throughout Branch1











## **Construction Highlights – Union Square Station**



Work is active at the Union Square platform & Central Instrument House







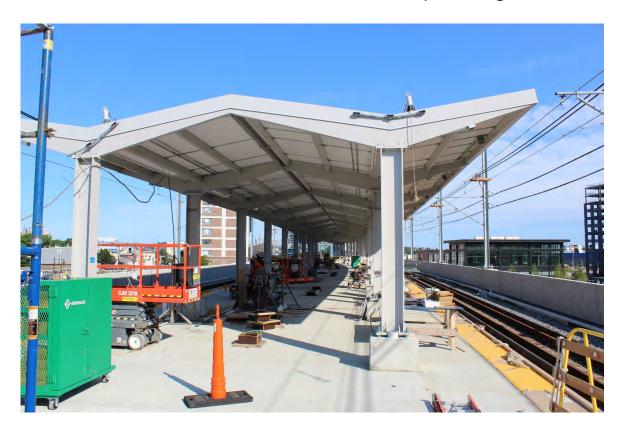




### **Construction Highlights – Lechmere Station**



- Electrical & systems work continues at viaduct level
- At street level structural steel painting, substructure finishing/cleaning & downspout installation underway









## **Construction Highlights – Ball Square Station**



- The pedestrian access from Broadway Bridge to the station is taking shape
- Noise wall panel placement has started at Newbern Ave.











# **Outreach – Hotline Responses**

- 1,945 inquiries thru Hotline, e-mail or direct contact with outreach staff project to date. 28 contacts received in July.
- 1,835 actions closed out to date











# **Q & A**





